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In re Application of: **Sulayman Dib-Hajj et al.**)
Application No. **09/856,274**) Group Art Unit: **1614**
Filed: **May 18, 2001**) Examiner: **Not Assigned**
For: **Effects of GDNF and NGF on Sodium**)
Channels in DRG Neurons)

Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97(b)

Pursuant to 37 C.F.R. 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO-1449. This Information Disclosure Statement is being filed to the best of the undersigned's knowledge before the mailing date of a first Office Action on the merits for the above-referenced application. Accordingly, Applicants do not believe that a fee is due for filing this paper.

Copies of the listed documents are attached. Also attached is a single reference cited in the International Search Report which issued in International Application PCT/US99/27368 of which the above-referenced application is a U.S. National Phase Application under 35 U.S.C. 371.

Applicants respectfully request that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached form. This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the above-listed documents are material or constitute prior art. If the Examiner applies the documents as prior art against any claim in the application and Applicants determine that the cited documents do not constitute prior art under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such document.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention should one or more of the documents be applied against the claims of the present application.

Except for issue fees payable under 37 C.F.R. 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. 1.16 and 1.17 which may be required, including any required extension of time fees, or

Attorney Docket 044574-5044

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credit any overpayment to Deposit Account 50-0310. This paragraph is intended to be a **constructive petition for extension of time** in accordance with 37 C.F.R. 1.136(a)(3).

Dated: **April 3, 2002**

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Respectfully submitted
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Attorney Docket 044574-5044-US

Applicants: Sulayman Dib-Hajj *et al.*

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Filing Date: May 18, 2001

Group Art Unit: 1614

U.S. PATENT DOCUMENTS

Initial		Document No.	Date	Name	Class	Sub-Class	Filing Date
	aa	5,731,284	03/24/1998	Williams	514	8	09/28/1995

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub-Class	Translation

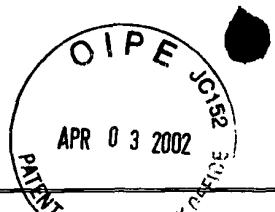
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

ab	Akopian <i>et al.</i> (1996) A tetrodotoxin-resistant voltage-gated sodium channel expressed by sensory neurons, <i>Nature</i> 379:257-262
ac	Averill <i>et al.</i> (1995) Immunocytochemical localization of trkA receptors in chemically identified subgroups of adult rat sensory neurons, <i>Eur. J. Neurosci.</i> 7:1484-1494
ad	Bennett <i>et al.</i> (1996) trkA, CGRP and 1B4 expression in retrogradely labeled cutaneous and visceral primary sensory neurones in the rat, <i>Neurosci. Lett.</i> 206:33-36
ae	Bennett <i>et al.</i> (1998) A distinct subgroup of small DRG cells express GDNF receptor components and GDNF is protective for these neurons after nerve injury, <i>J. Neurosci.</i> 18:3059-3072
af	Caffrey <i>et al.</i> (1992) Three types of sodium channels in adult rat dorsal root ganglion neurons, <i>Brain Res.</i> 592:283-297
ag	Cummins <i>et al.</i> (1997) Downregulation of tetrodotoxin-resistant sodium currents and upregulation of a rapidly repriming tetrodotoxin-sensitive sodium current in small spinal sensory neurons after nerve injury, <i>J. Neurosci.</i> 17:3503-3514
ah	Dib-Hajj <i>et al.</i> (1996) Down-regulation of transcripts for Na channel alpha-SNS in spinal sensory neurons following axotomy, <i>Proc. Natl. Acad. Sci. USA</i> 93:14950-14954
ai	Dib-Hajj <i>et al.</i> (1998) Rescue of alpha-SNS sodium channel expression in small dorsal root ganglion neurons after axotomy by nerve growth factor <i>in vivo</i> , <i>J. Neurophysiol.</i> 79:2668-2676
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am	Matzner <i>et al.</i> (1994) Hyperexcitability at sites of nerve injury depends on voltage-sensitive Na ⁺ channels, <i>J. Neurophysiol.</i> 72:349-359
an	Molliver <i>et al.</i> (1997) IB4-binding DRG neurons switch from NGF to GDNF dependence in early postnatal life, <i>Neuron</i> 19:849-861
ao	Okuse <i>et al.</i> (1997) Regulation of expression of the sensory neuron-specific sodium channel SNS in inflammatory and neuropathic pain, <i>Mol. Cell Neurosci.</i> 10:196-207

Examiner

Date Considered

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">ap</td> <td>Quasthoff <i>et al.</i> (1995) Calcium potentials and tetrodotoxin-resistant sodium potentials in unmyelinated C fibres of biopsied human sural nerve, <i>Neurosci.</i> 69:955-965</td> </tr> <tr> <td>aq</td> <td>Rizzo <i>et al.</i> (1995) Selective loss of slow and enhancement of fast Na^+ currents in cutaneous afferent dorsal root ganglion neurons following axotomy, <i>Neurobiol. Dis.</i> 2:87-96</td> </tr> <tr> <td>ar</td> <td>Roy <i>et al.</i> (1992) Differential properties of tetrodotoxin-sensitive and tetrodotoxin-resistant sodium channels in rat dorsal root ganglion neurons, <i>J. Neurosci.</i> 12:2104-2111</td> </tr> <tr> <td>as</td> <td>Sangameswaran <i>et al.</i> (1996) Structure and function of a novel voltage-gated tetrodotoxin-resistant sodium channel specific to sensory neurons, <i>J. Biol. Chem.</i> 271:5953-5956</td> </tr> <tr> <td>at</td> <td>Snider <i>et al.</i> (1998) Tackling pain at the source: new ideas about nociceptors, <i>Neuron</i> 20:629-632</td> </tr> <tr> <td>au</td> <td>Wright <i>et al.</i> (1995) Neurotrophin receptor mRNA expression defines distinct populations of neurons in rat dorsal root ganglia, <i>J. Comp. Neurol.</i> 351:329-338</td> </tr> </table>				ap	Quasthoff <i>et al.</i> (1995) Calcium potentials and tetrodotoxin-resistant sodium potentials in unmyelinated C fibres of biopsied human sural nerve, <i>Neurosci.</i> 69:955-965	aq	Rizzo <i>et al.</i> (1995) Selective loss of slow and enhancement of fast Na^+ currents in cutaneous afferent dorsal root ganglion neurons following axotomy, <i>Neurobiol. Dis.</i> 2:87-96	ar	Roy <i>et al.</i> (1992) Differential properties of tetrodotoxin-sensitive and tetrodotoxin-resistant sodium channels in rat dorsal root ganglion neurons, <i>J. Neurosci.</i> 12:2104-2111	as	Sangameswaran <i>et al.</i> (1996) Structure and function of a novel voltage-gated tetrodotoxin-resistant sodium channel specific to sensory neurons, <i>J. Biol. Chem.</i> 271:5953-5956	at	Snider <i>et al.</i> (1998) Tackling pain at the source: new ideas about nociceptors, <i>Neuron</i> 20:629-632	au	Wright <i>et al.</i> (1995) Neurotrophin receptor mRNA expression defines distinct populations of neurons in rat dorsal root ganglia, <i>J. Comp. Neurol.</i> 351:329-338
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